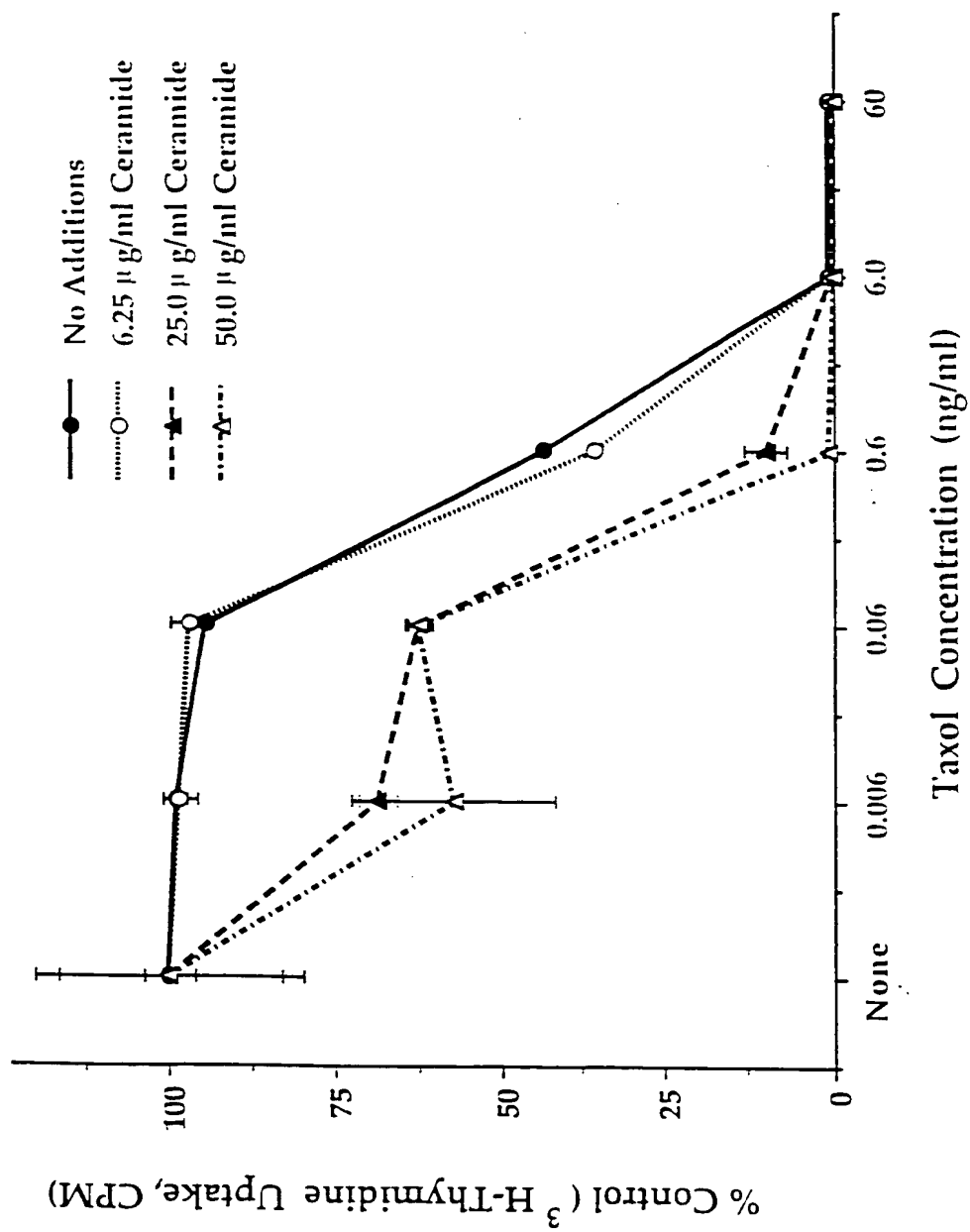


**FIG. 1** Effect of Taxol and Ceramide on Jurkat Cell Growth Inhibition



**FIG. 2**  
**Effect of Serum on Taxol and Ceramide**  
**Induced Jurkat Cell Growth Inhibition**

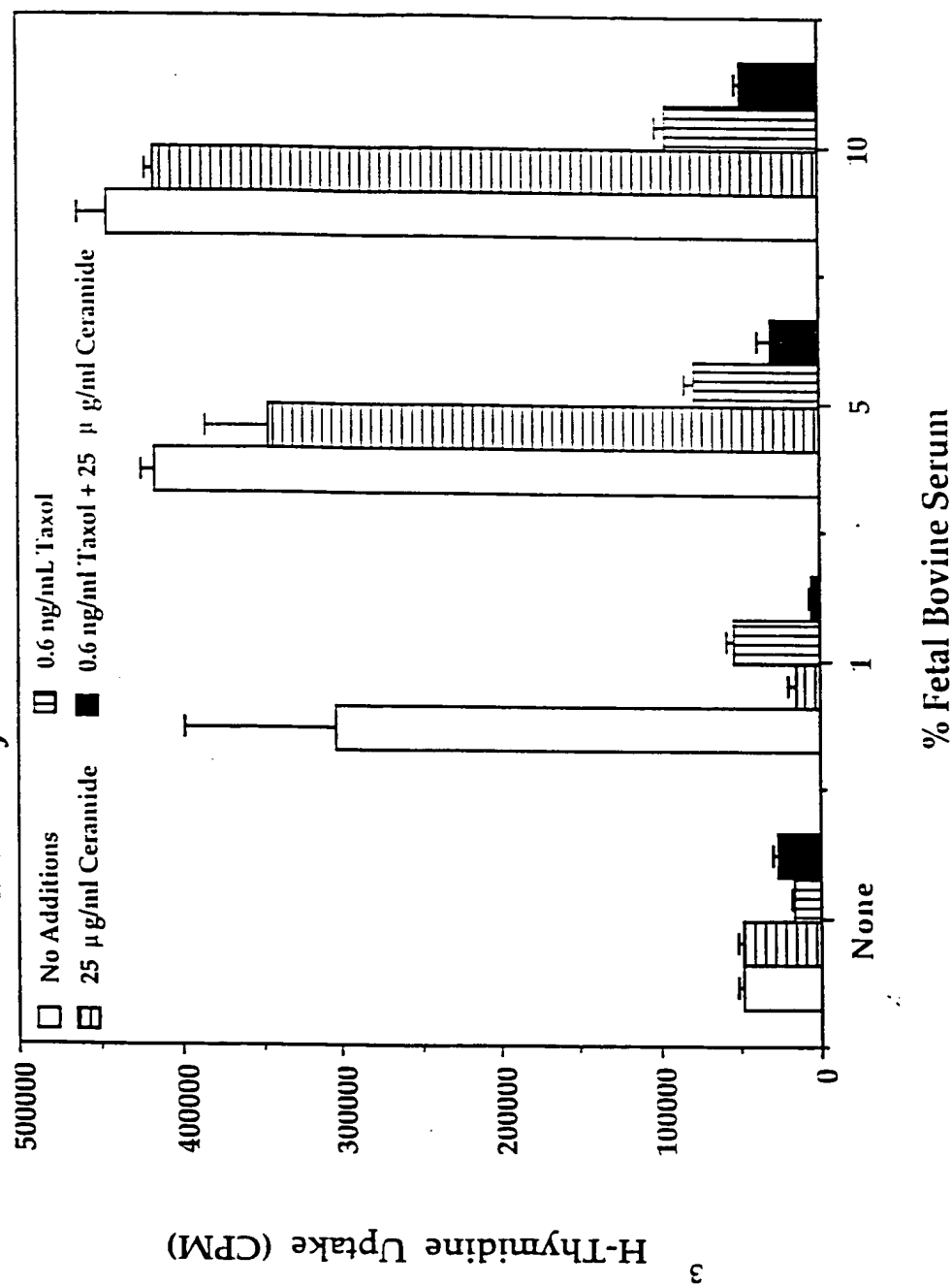


FIG. 3A

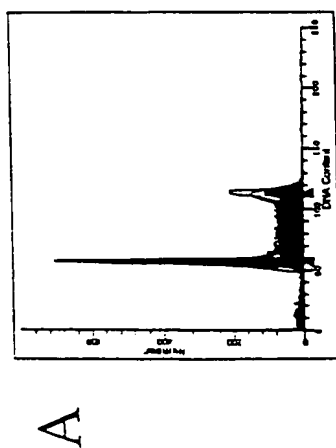


FIG. 3B

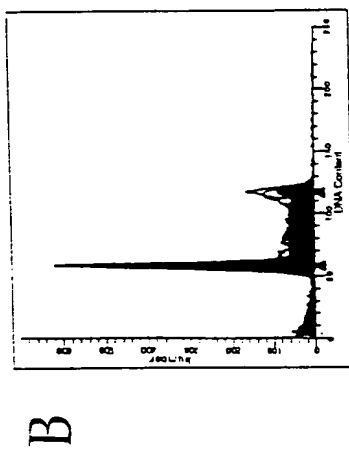


FIG. 3C

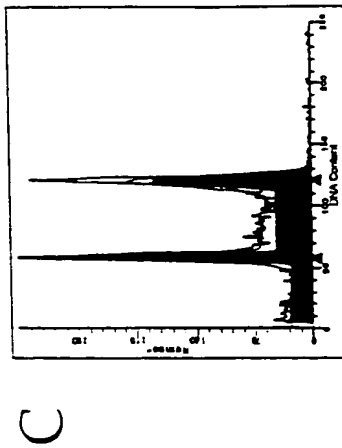
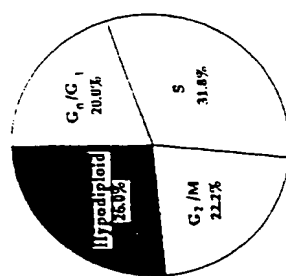
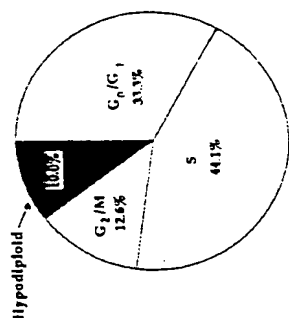
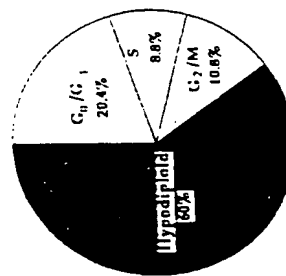
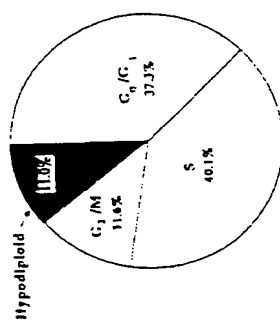
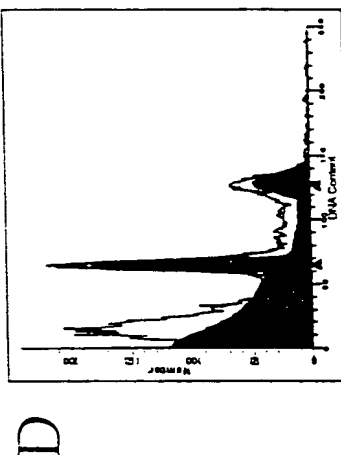
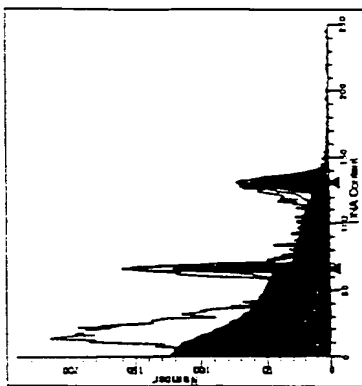
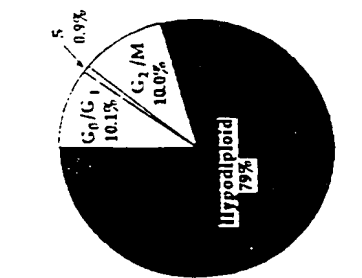


FIG. 3D



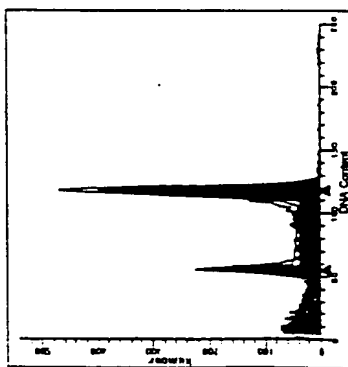
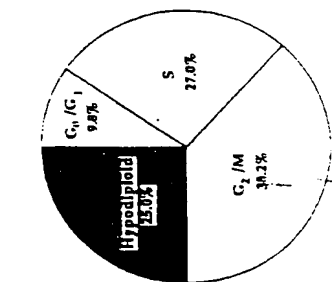
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FIG. 3F



F

FIG. 3E



E

FIG. 4A

Untreated

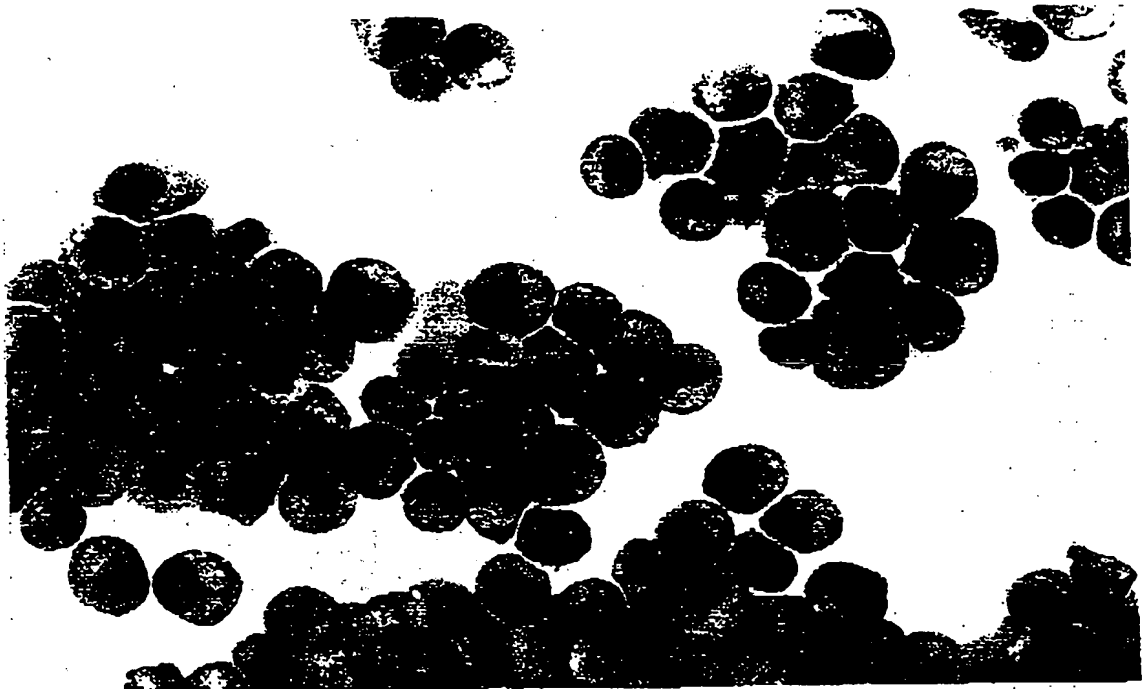


FIG. 4B

+25  $\mu$ g/ml Ceramide



FIG. 4C

+0.6 ng/ml Paclitaxel

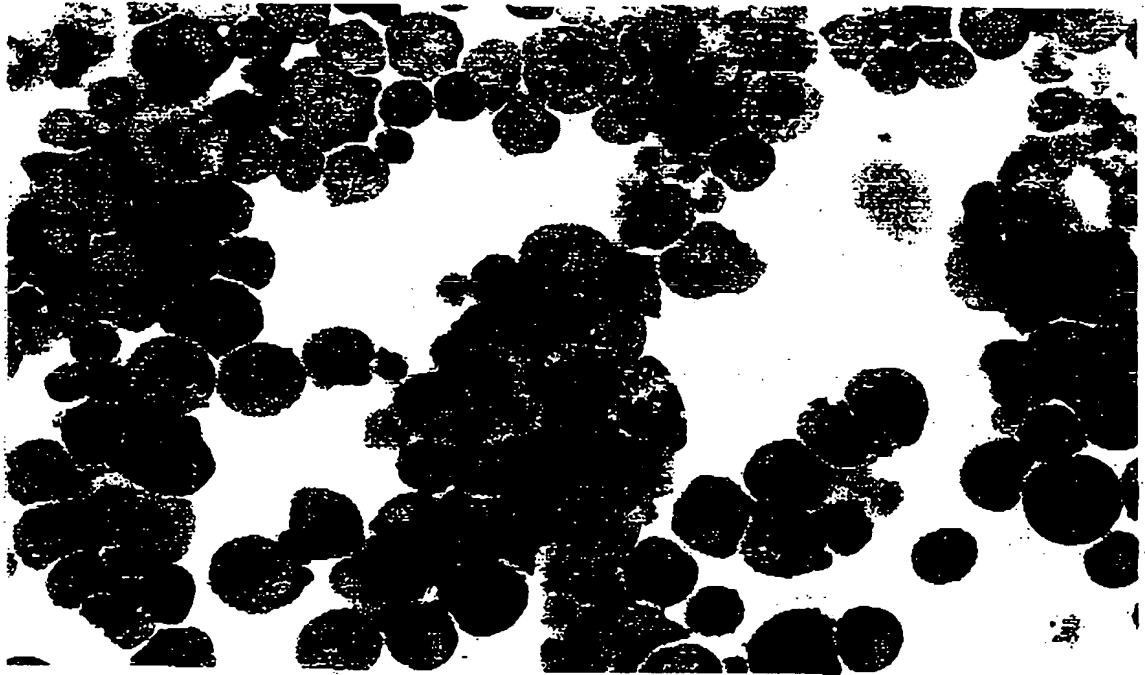


FIG. 4D

+6.0 ng/ml Paclitaxel

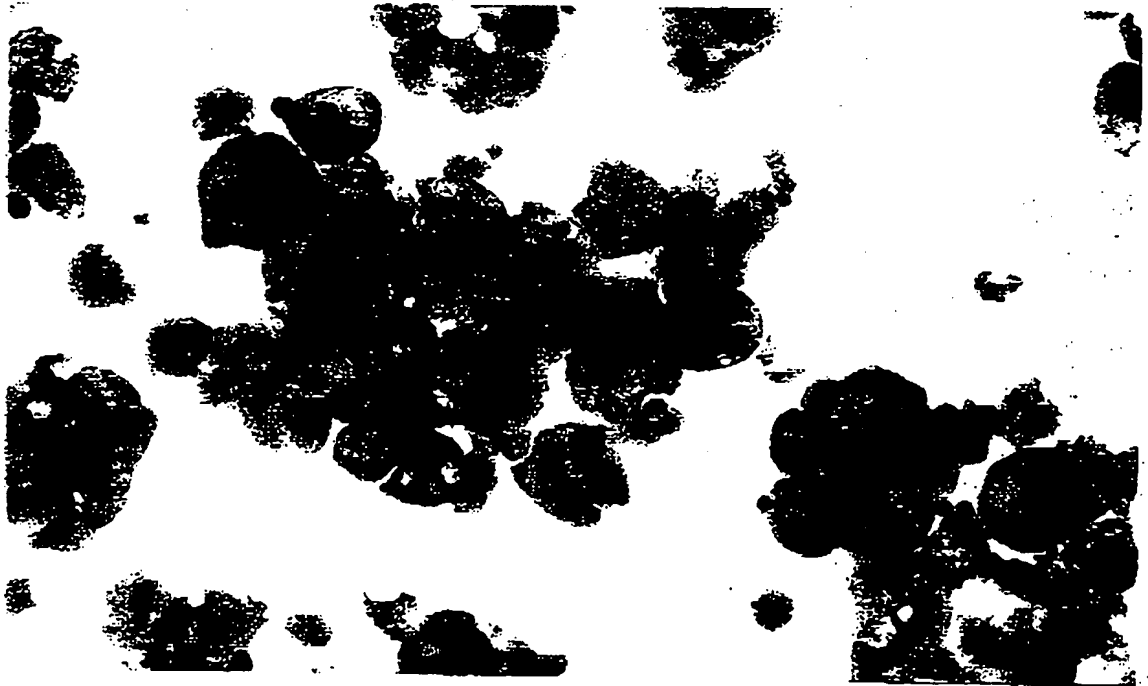


FIG. 4E

0.6 ng/ml Paclitaxel  
+  
25  $\mu$ g/ml Ceramide



FIG. 4F

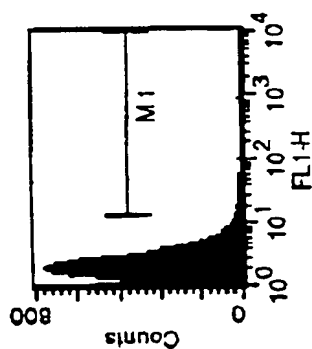
6.0 ng/ml Paclitaxel  
+  
25  $\mu$ g/ml Ceramide



662040-48828260

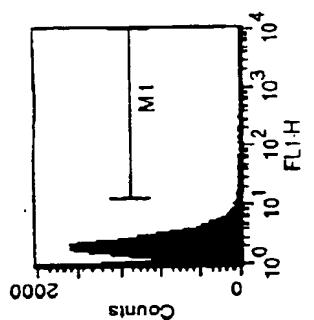
## Taxol and Ceramide Induction of Apoptosis in Jurkat Cells

FIG. 5A (24 Hours)



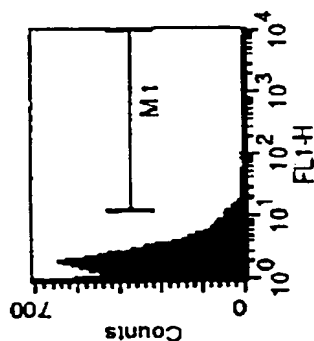
0.93%

FIG. 5B



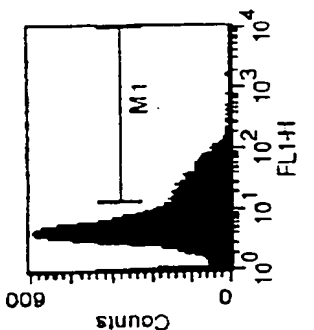
0.64%

FIG. 5C



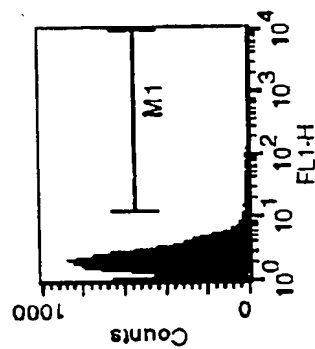
1.16%

FIG. 5D



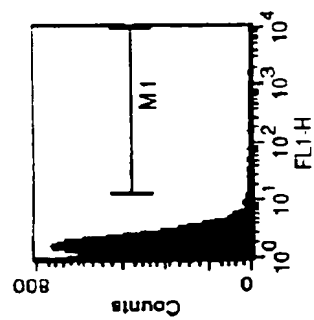
25.49%

FIG. 5E (48 Hours)



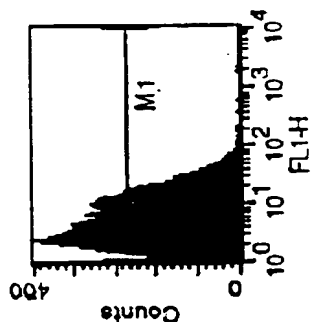
0.77%

FIG. 5F



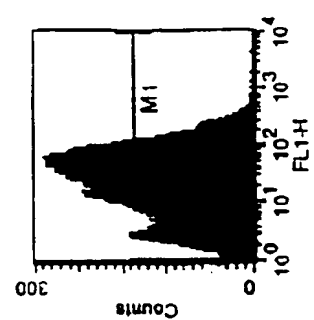
0.33%

FIG. 5G



19.60%

FIG. 5H

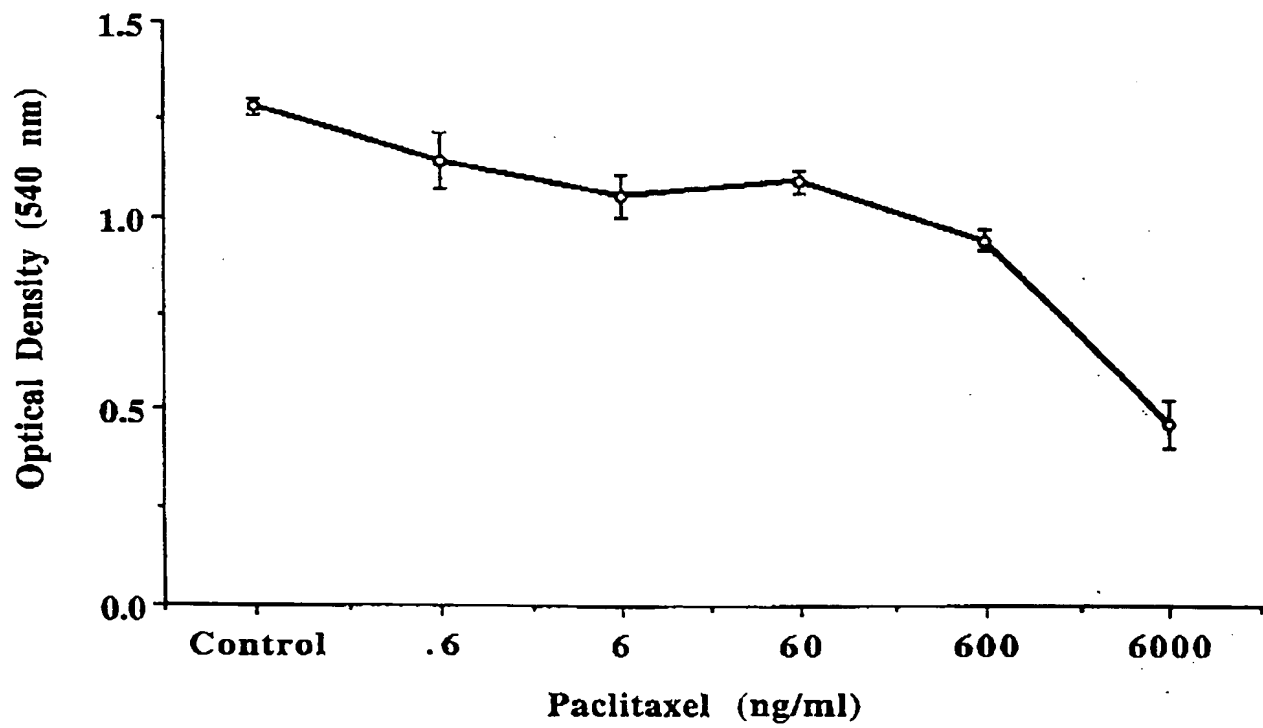


66.05%

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FIG. 6A

Effect of Paclitaxel on Tu138 Cell Survival



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FIG. 6B

Effect of Ceramide on Tu138 Cell Survival

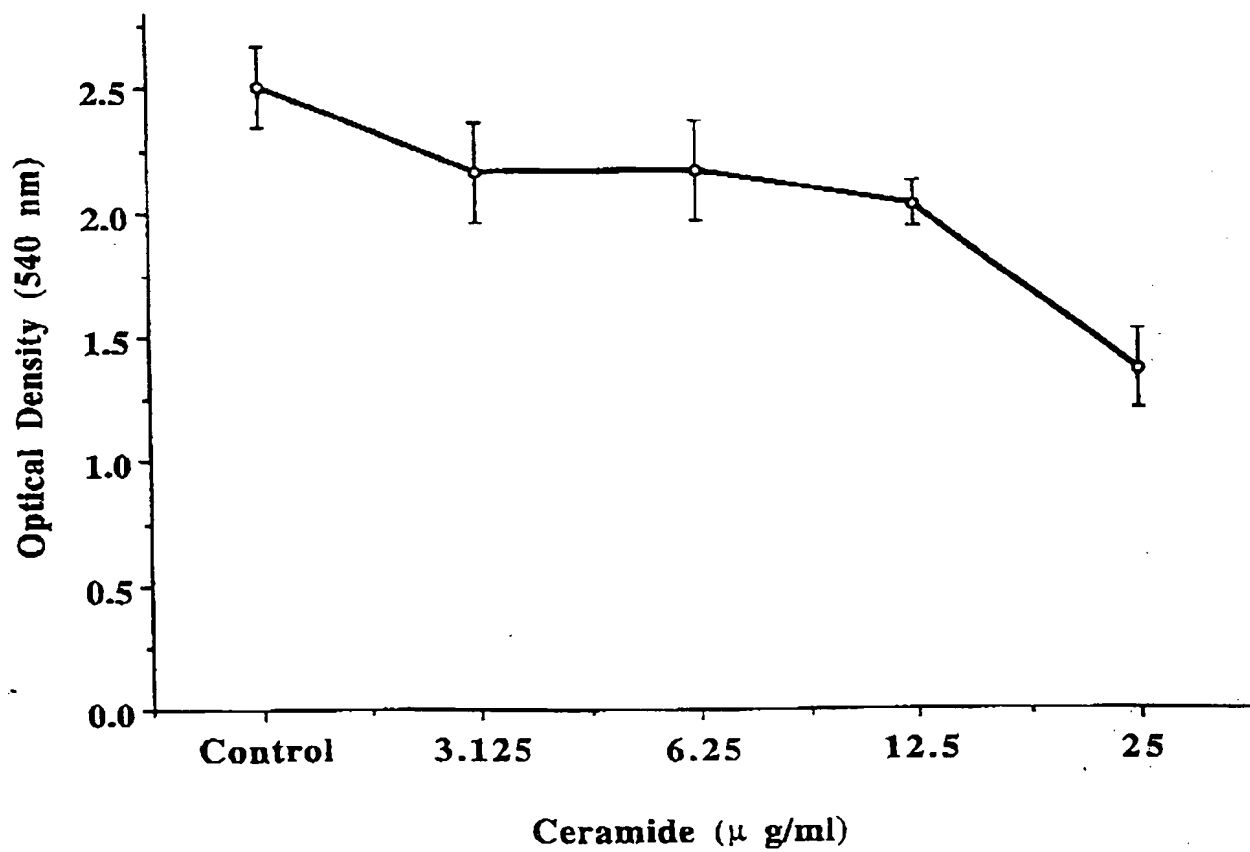
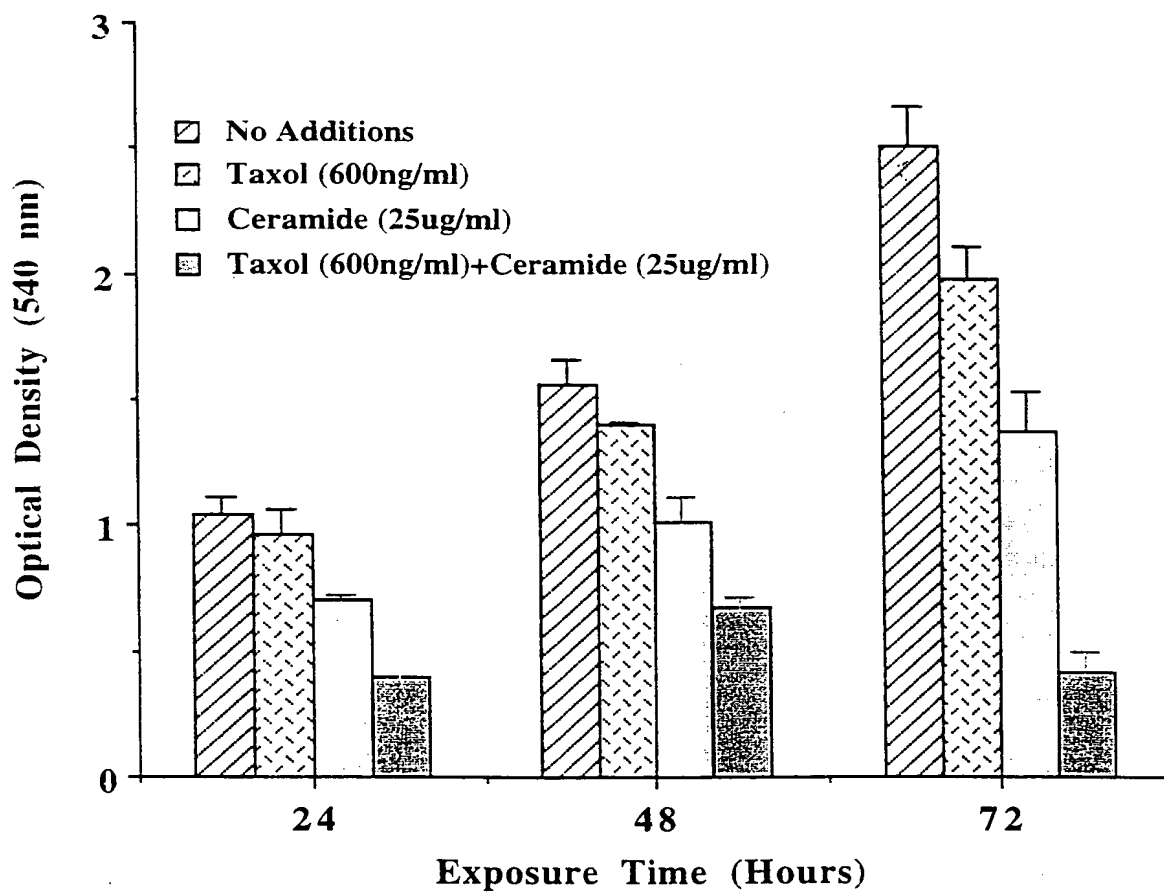


FIG. 7

Time Kinetics of Combined Additions of Paclitaxel and Ceramide



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FIG. 8

50% Isobologram Analysis of Paclitaxel and  
Ceramide Exposed Tu138 cell survival

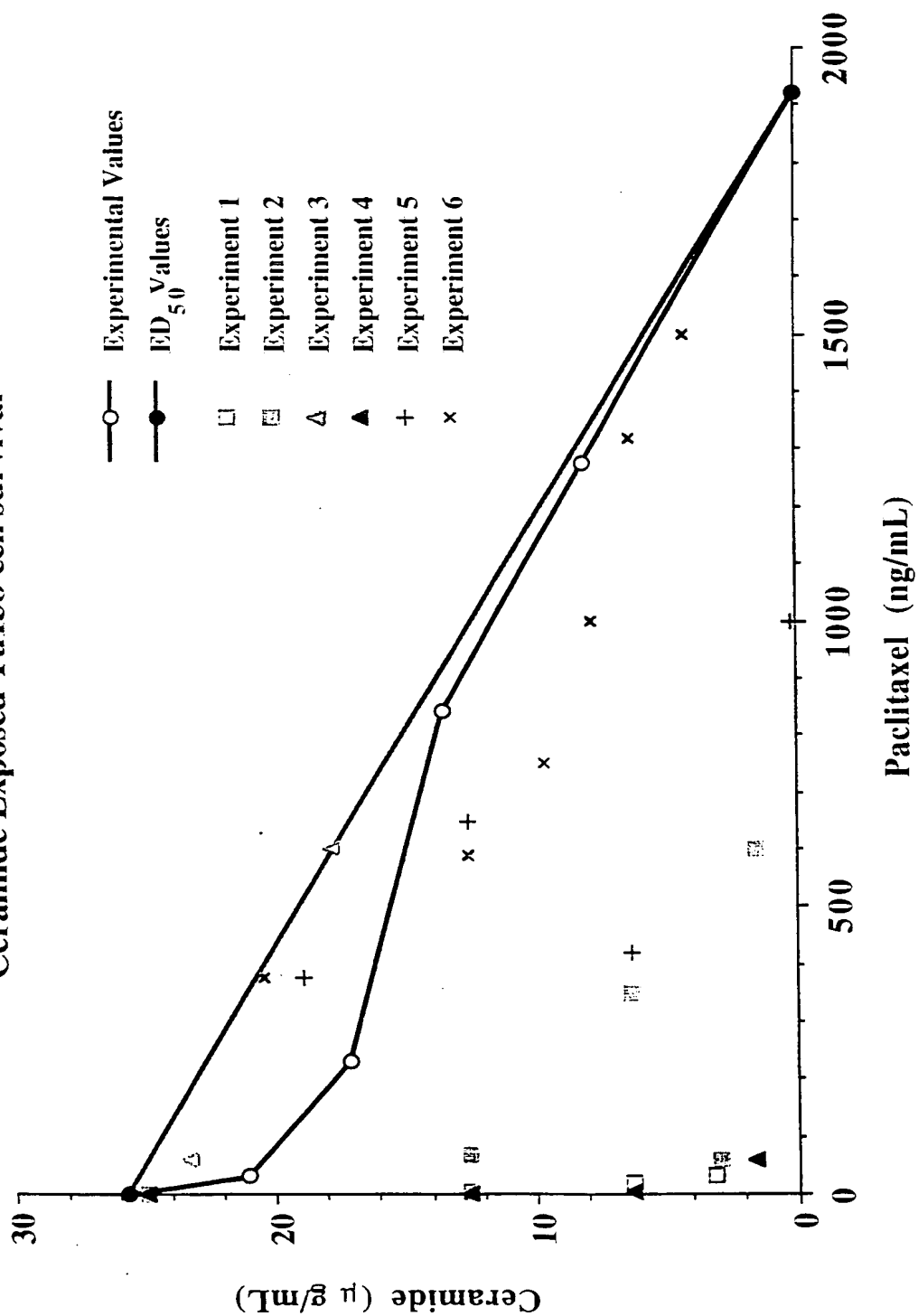
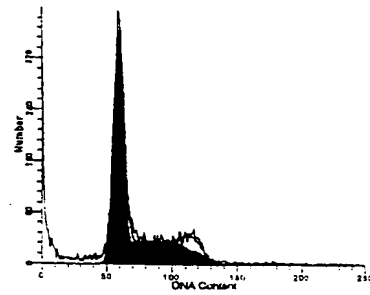


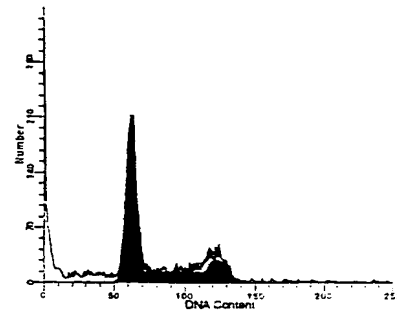
FIG. 9A



G<sub>0</sub>-G<sub>1</sub>: 59.1%  
S: 33.5%  
G<sub>2</sub>-M: 7.4%

Control - No Additions (24 hours)

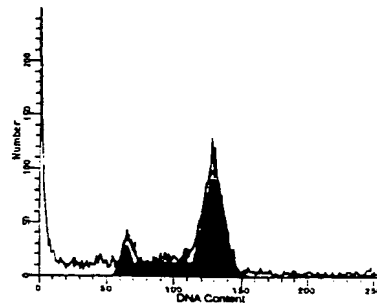
FIG. 9B



G<sub>0</sub>-G<sub>1</sub>: 56.7%  
S: 26.8%  
G<sub>2</sub>-M: 16.5%

Ceramide 25 µg/ml (24 hours)

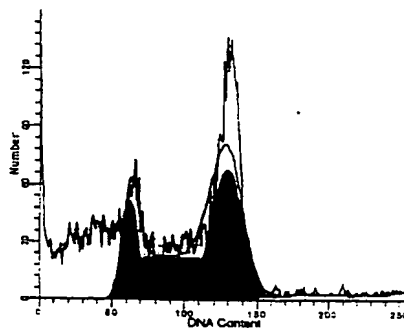
FIG. 9C



G<sub>0</sub>-G<sub>1</sub>: 9.5%  
S: 28.7%  
G<sub>2</sub>-M: 61.8%

Paclitaxel 600 ng/ml (24 hours)

FIG. 9D

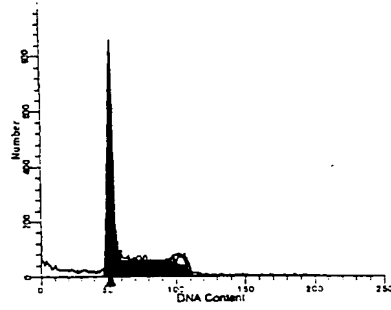


G<sub>0</sub>-G<sub>1</sub>: 17.2%  
S: 37.2%  
G<sub>2</sub>-M: 45.6%

Ceramide 25 µg/ml (24 hours)  
+ Paclitaxel 600 ng/ml

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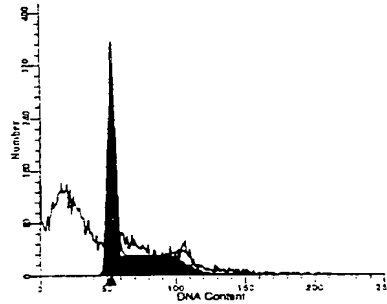
FIG. 9E



G<sub>0</sub>-G<sub>1</sub>: 53.9%  
S: 40.2%  
G<sub>2</sub>-M: 6.0%

Control - No additions (48 hours)

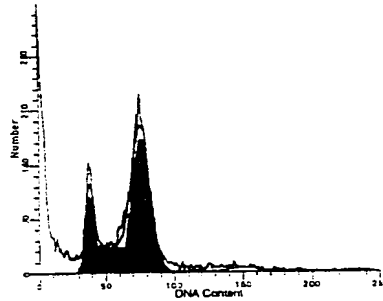
FIG. 9F



G<sub>0</sub>-G<sub>1</sub>: 54.9%  
S: 39.6%  
G<sub>2</sub>-M: 5.5%

Ceramide 25 µg/ml (48 hours)

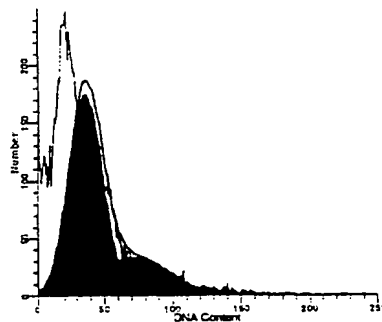
FIG. 9G



G<sub>0</sub>-G<sub>1</sub>: 16.7%  
S: 25.2%  
G<sub>2</sub>-M: 58.2%

Paclitaxel 600 ng/ml (48 hours)

FIG. 9H



G<sub>0</sub>-G<sub>1</sub>: 71.6%  
S: <1%  
G<sub>2</sub>-M: 28.4%

Ceramide 25 µg/ml (48 hours)  
+ Paclitaxel 600 ng/ml

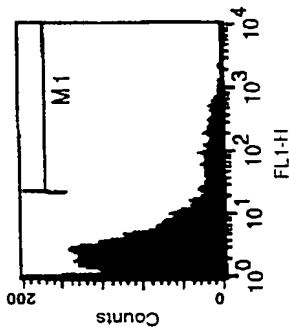
09237884-040799

Time Kinetics Of The Induction Of Apoptosis By Paclitaxel And Ceramide Acting In Combination.

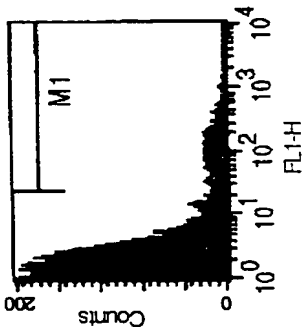
**FIG. 10A**

**FIG. 10B**

24 Hours Of Taxol And/Or Ceramide Exposure.

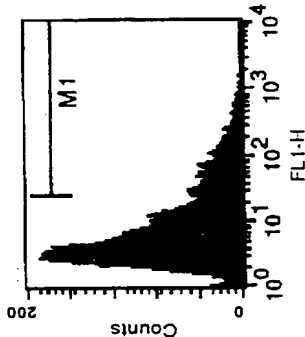


Control - no additions  
Apoptosis: 8.7%



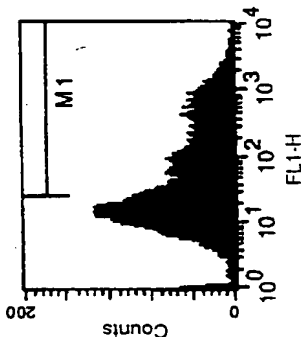
Ceramide (25 µg/ml)  
Apoptosis: 9.7%

**FIG. 10C**



Paclitaxel (600 ng/ml)  
Apoptosis: 18.35%

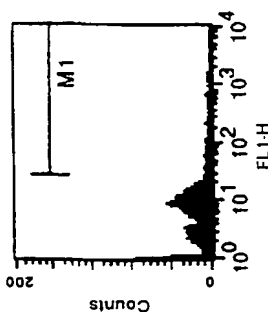
**FIG. 10D**



Ceramide 25 µg/ml  
+ Paclitaxel 600 ng/ml  
Apoptosis: 53.7%

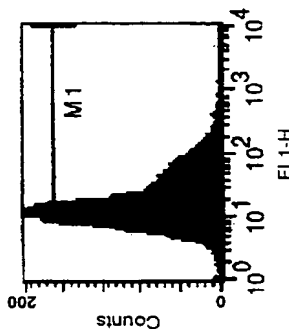
**FIG. 10E**

48 Hours Of Taxol And/Or Ceramide Exposure.



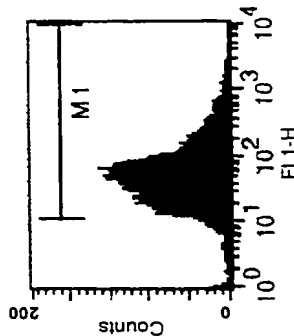
Control - no additions  
Apoptosis: 7.8%

**FIG. 10G**



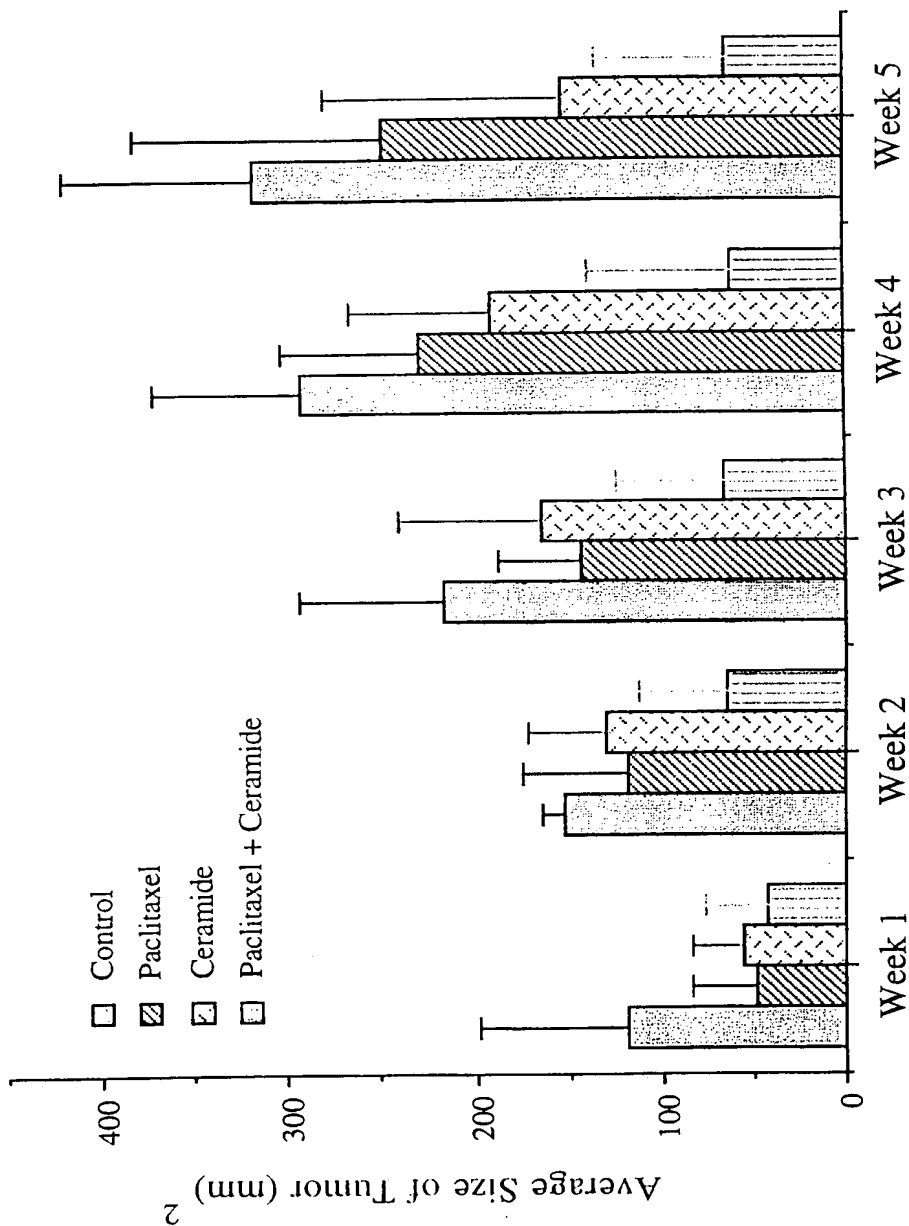
Paclitaxel (600 ng/ml)  
Apoptosis: 54.7%

**FIG. 10H**



Ceramide (25 µg/ml)  
+ Paclitaxel 600 ng/ml  
Apoptosis: 84.9%

**FIG. 11** Growth of Human Squamous Carcinoma Cells in Nude Mice



**FIG. 12** Excised Tumor Weights

